



April 2001

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Standards Actions



DOE Technical Standards Program Document Status

03-29-2001

Activity Summary

In Conversion – 4

In Preparation – 35

Out for Comment – 19

Published this Month – 2



5-year Sunset Review Status

Revisions in Progress – 2

Reaffirmations in Progress – 19

Supersedures in Progress – 6

Cancellations Pending – 9

Cancellations in Progress – 20

No Current Action – 14

DOE Technical Standards Project Initiated

If you have any questions or are interested in participating in the development of this standard, please contact the representative listed below. Complete listings of all DOE Technical Standards projects and their status are given on the Technical Standards Program (TSP) Web Site (<http://tis.eh.doe.gov/techstds/>). To access these lists from the home page, click on "DOE Technical Standards," then click on "Projects" in the left-hand frame to show the links to the project lists.

The following DOE Technical Standards project was recently initiated:

- *Department-Wide Quality Assurance Functional Area Qualification Standard*, Project Number TRNG-0018, M. Norman Schwartz, EH-53; 301-903-2996, Fax 301-903-6172, Norm.Schwartz@eh.doe.gov.

DOE Technical Standards Recently Sent for Coordination

The appropriate Technical Standards Managers (TSMs) will request specific reviewers to comment on these drafts. The full text of the documents is available on the TSP Web Site. If you wish to comment on this document, please notify your TSM.

The following draft DOE Technical Standards were recently distributed for coordination.

- *Radiological Control Programs for Special Tritium Compounds*, Project Number OCSH-0002; Dr. Joel Rabovsky, U.S. Department of Energy, EH-52, 19901 Germantown Road, Germantown, Maryland 20874-1290; 301-903-2135; Fax 301-903-7773; Joel.Rabovsky@eh.doe.gov. Comments are due May 11, 2001.
- *Stabilization, Packaging, and Storage of Plutonium Bearing Materials*, Project Number PACK-0015; Gary Roberson, U.S. Department of Energy, Albuquerque Operations Office, Kirtland Air Force Base, East, P.O. Box 5400, Albuquerque, New Mexico 87185-5400; 505-845-5805; Fax 505-845-5872; GRoberson@doeal.gov. This document will update DOE-STD-3013-2000. Due to the type of change being proposed, a new project is being generated for the document and its coordination phase is being announced coincident with project initiation. A shortened comment period (30 days) has been approved for the project. Comments are due April 26, 2001.
- *Glossary of Safety and Health Terms*, Project Number SDMP-0026; M. Norman Schwartz, U.S. Department of Energy, EH-53, 19901 Germantown Road, Germantown, Maryland 20874-1290; 301-903-2996; Fax 301-903-6172; Norm.Schwartz@eh.doe.gov. This document is being re-released for coordination due to comments received and implemented during the first coordination period that concluded on January 28, 2000. Also incorporated in this document are salient terms from the 10 CFR 830 Rule published in the spring of 2001 and 10 CFR 850, *Chronic Beryllium Disease Prevention Program: Final Rule*. Comments are due May 25, 2001. Note: Posting of this document has been delayed, but it should be accomplished the week of April 2, 2001.

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DOE Technical Standards Recently Published

The following DOE Technical Standards were recently published and posted on the TSP Web Site:

- DOE-STD-1136-2000, Change Notice 2, *Guide of Good Practices for Occupational Radiological Protection in Uranium Facilities*, March 2001.

DOE-STD-1136-2000, Change Notice No. 2 was issued to correct an inaccurate reference to a physical property of an element (U-234) in the technical standard. The source document for the physical property information (*Radiological Health Handbook* [1970], renamed *Health Physics and Radiological Health Handbook* [1992]) originally listed an incorrect value for specific activity of U-234 that has since been corrected.

- DOE-STD-3015-2001, *Nuclear Explosive Safety Study Process*, February 2001. This document supersedes DOE-STD-3015-97.

DOE employees and DOE contractors may obtain copies from the ES&H Technical Information Services, U.S. Department of Energy; 1-800-473-4375, Fax 301-903-9823.

Subcontractors and the general public may obtain copies from the U.S. Department of Commerce, Technology Administration, National Technical Information Service, Springfield, Virginia 22161; 703-605-6000, Fax 703-605-6900.

DOE employees and DOE contractors may obtain copies from the ES&H Technical Information Services, U.S. Department of Energy; 1-800-473-4375, Fax 301-903-9823.

Non-Government Standards

American National Standards Institute

The American National Standards Institute (ANSI) publishes coordination activities of non-Government standards (NGS) biweekly in *ANSI Standards Action*. Recent electronic copies (no hardcopies are produced) are available on the ANSI Web site at http://web.ansi.org/rooms/room_14/. Electronic back copies are available to ANSI members only. For information on site membership, ask your local ANSI contact. For information on individual or group ANSI membership, contact Susan Bose at 212-642-4948 or sbose@ansi.org.

Hardcopy versions of published non-Government standards listed in this section may be obtained from Global Engineering Documents, 15 Inverness Way East, Englewood, Colorado, 80112, 800-854-7179, Fax 303-397-2740, global@ihs.com, <http://global.ihs.com>. Elec-

tronic delivery of selected documents is available through ANSI at <http://webstore.ansi.org>. Copies of the listed draft standards and the procedure for commenting on them may be obtained by contacting the standards developing organization.

The following listings are extracted from *ANSI Standards Action* and are representative of NGS development activities that may be relevant to DOE operations. Refer to *ANSI Standards Action* for a more extensive listing of changes and new publications, standards developing organizations, and additional information about submitting comments. Additional information on ANSI activities and available non-Government standards can be found on the ANSI Web site, <http://www.ansi.org>, or through the National Standards System Network, <http://www.nssn.org>.

The following American National Standards are currently in coordination (comment due dates follow each entry):

- AIAA R-100, *Recommended Practice for Parts Management* (revision of ANSI/AIAA R-100-1996) – May 8, 2001.
- ANS 52.1-1983 (R1988), *Boiling Water Reactor Plants, Nuclear Safety Criteria for the Design of Stationary* (reaffirmation of ANSI/ANS 52.1-1983 (R1988)) – May 8, 2001.
- ASME B56.1a, *Low Lift and High Lift Trucks* (supplement to ANSI/ASME B56.1-2000) – April 23, 2001.
- ASME B73.1M, *Horizontal End Suction Centrifugal Pumps for Chemical Process, Specifications* (revision of ANSI/ASME B73.1M-1991 (R1999)) – May 8, 2001.
- ASME B73.5M-1995, *Specification for Thermoplastic and Thermoset Polymer Material Horizontal End Suction Centrifugal Pumps for Chemical Process* (reaffirmation of ANSI/ASME B73.5M-1995) – May 22, 2001.
- ASME MFC-14, *Measurement of Fluid Flow Using Small Bore Precision Orifice Meters* (revision of ANSI/ASME MFC-14M-1995) – May 22, 2001.
- ASTM D1356, *Terminology Relating to Sampling and Analysis of Atmospheres* (revision of ANSI/ASTM D1356) – May 22, 2001.
- ASTM D3685/D3685M, *Test Methods for Sampling and Determination of Particulate Matter in Stack Gases* (revision of ANSI/ASTM D3685/D3685M) – May 22, 2001.

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- ASTM D4107, *Test Method for Tritium in Drinking Water* (new standard) – May 8, 2001.
- ASTM D4210, *Practice for Intralaboratory Quality Control Procedures and a Discussion on Reporting Low-Level Data* (new standard) – May 8, 2001.
- ASTM D5174, *Test Method for Trace Uranium in Water by Pulsed-Laser Phosphorimetry* (new standard) – May 8, 2001.
- ASTM D5245, *Practice for Cleaning Laboratory Glassware, Plasticware, and Equipment Used in Microbiological Analyses* (new standard) – May 8, 2001.
- ASTM D5411, *Practice for Calculation of Average Energy Per Disintegration (E) for a Mixture of Radionuclides in Reactor Coolant* (new standard) – May 8, 2001.
- ASTM D5612, *Guide for Quality Planning and Field Implementation of a Water Quality Measurement Program* (new standard) – May 8, 2001.
- ASTM D5789, *Practice for Writing Quality Control Specifications for Standard Test Methods for Organic Constituents* (new standard) – May 8, 2001.
- ASTM D5811, *Test Method for Strontium-90 in Water* (new standard) – May 8, 2001.
- ASTM D5847, *Practice for Writing Quality Control Specifications for Standard Test Methods for Water Analysis* (new standard) – May 8, 2001.
- ASTM D5851, *Guide for Planning and Implementing a Water Monitoring Program* (new standard) – May 8, 2001.
- ASTM D6060, *Practice for Sampling of Process Vents with a Portable Gas Chromatograph* (new standard) – May 22, 2001.
- ASTM D6239-98a, *Test Method for Uranium in Drinking Water by High-Resolution Alpha-Liquid-Scintillation Spectrometry* (new standard) – May 22, 2001.
- ASTM D6302-98, *Practice for Evaluating the Kinetic Behavior of Ion Exchange Resins* (new standard) – May 22, 2001.
- ASTM D6420, *Test Method for Determination of Gaseous Organic Compounds by Direct Interface Gas Chromatography-Mass Spectrometry* (new standard) – May 22, 2001.
- ASTM D6494, *Test Method for Determination of Asphalt Fume Particulate Matter In Workplace Atmospheres as Benzene Soluble Fraction* (new standard) – May 22, 2001.
- ASTM E94, *Guide for Radiographic Examination* (revision of ANSI/ASTM E94-00) – May 22, 2001.
- ASTM E1316, *Terminology for Nondestructive Examinations* (revision of ANSI/ASTM E1316-00) – May 22, 2001.
- ASTM E1370, *Guide for Air Sampling Strategies for Worker and Workplace Protection* (new standard) – May 22, 2001.
- ASTM E1419, *Test Method for Examination of Seamless, Gas-Filled, Pressure Vessels Using Acoustic Emission* (revision of ANSI/ASTM E1419-00 30.00) – May 22, 2001.
- ASTM E1742, *Practice for Radiographic Examination* (revision of ANSI/ASTM E1742-00) – May 22, 2001.
- ASTM F660, *Practice for Comparing Particle Size in the Use of Alternative Types of Particle Counters* (new standard) – May 8, 2001.
- ASTM F778, *Methods for Gas Flow Resistance Testing of Filtration Media* (new standard) – May 22, 2001.
- ASTM F1471, *Test Method for Air Cleaning Performance of a High-Efficiency Particulate Air-Filter System* (new standard) – May 22, 2001.
- ASTM Z8489Z, *Classification for Life-Cycle Environmental Work Elements – Environmental Cost Elements Structure* (new standard) – May 22, 2001.
- AWS A3.0, *Standard Welding Terms and Definitions* (revision of ANSI/AWS A3.0-94) – May 22, 2001.
- N13.39, *Design of Internal Dosimetry Programs* (new standard) – May 8, 2001.
- NFPA 70, *National Electrical Code®* (revision of ANSI/NFPA 70-1999) – May 8, 2001.
- NFPA 495, *Explosive Materials Code* (revision of ANSI/NFPA 495-1996) – May 8, 2001.
- NFPA 498, *Standard for Safe Havens and Interchange Lots for Vehicles Transporting Explosives* (reaffirmation of ANSI/NFPA 498-1996) – May 8, 2001.
- NFPA 704, *Standard System for the Identification of the Hazards of Materials for Emergency Response* (revision of ANSI/NFPA 704-1996) – May 8, 2001.
- NFPA 1994, *Standard on Protective Ensembles for Chemical or Biological Terrorism Incidents* (new standard) – May 8, 2001.

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- NFPA 2112, *Standard on Flash Fire Protective Garments for Industrial Personnel* (new standard) – May 8, 2001.
- NFPA 2113, *Standard on Selection, Care, Use, and Maintenance of Flash Fire Protective Garments* (new standard) – May 8, 2001.
- UL 508, *Standard for Safety for Industrial Control Equipment* (revision of ANSI/UL 508-2001) – May 8, 2001.
- UL 2279, *Standard for Safety for Electrical Equipment for Use in Class I, Zone 0, 1, and 2 Hazardous (Classified) Locations* (revision of ANSI/UL 2279-1997) – May 8, 2001.
- UL 61496-1, *Electro-Sensitive Protective Equipment, Part 1: General Requirements and Tests* (new standard) – April 23, 2001.

The following American National Standards have been approved for publication (Publication is to take place within six months following the date shown. Publication status and ordering information may be obtained from ANSI's Customer Service at 212-642-4900.):

- ANSI N14.1-2000, *Uranium Hexafluoride—Packaging for Transport* (revision of ANSI N14.1-1995) – February 1, 2001.
- ANSI/ASME/ISO 3287-2001, *Powered Industrial Trucks – Symbols for Operator Controls and Other Displays* (new standard) – February 28, 2001.
- ANSI/ASTM D1763-01, *Specification for Epoxy Resins* (revision of ANSI/ASTM D1763-94) – January 18, 2001.
- ANSI/ASTM D3275-00, *Specification for Ethylene-Chlorotrifluoroethylene (E-CTFE) Fluoroplastic Molding, Extrusion, and Coating Materials* (revision of ANSI/ASTM D3275-97) – December 10, 2000.
- ANSI/ASTM E1458-97 (R01), *Test Method for Calibration Verification of Laser Diffraction Particle Sizing Instruments Using Photomask Reticles* (reaffirmation of ANSI/ASTM E1458-97) – February 10, 2001.
- ANSI/ASTM E1513-93 (R00), *Practice for Application of Sprayed Fire-Resistive Materials (SFRMS)* (reaffirmation of ANSI/ASTM E1513-93) – December 10, 2000.
- ANSI/AWS A5.18-2001, *Carbon Steel Electrodes and Rods for Gas Shielded Arc Welding* (revision of ANSI/AWS A5.18-93) – February 5, 2001.
- ANSI/AWS D16.3-2001, *Risk Assessment Guide for Robotic Welding* (new standard) – February 21, 2001.

- ANSI/IEEE 338-1987 (R2000), *Standard Criteria for the Periodic Surveillance Testing of Nuclear Power Generating Station Safety Systems* (reaffirmation of ANSI/IEEE 338-1987 (R1994)) – February 1, 2001.
- ANSI/NFPA 85-2001, *Combustion Systems Hazards Code* (re-designation and consolidation of ANSI/NFPA 8501-1997, ANSI/NFPA 8502-1998, ANSI/NFPA 8503-1997, ANSI/NFPA 8504-1996, ANSI/NFPA 8505-1998, ANSI/NFPA 8506-1998) – February 9, 2001.
- ANSI/NFPA 101A-2001, *Guide on Alternative Approaches to Life Safety* (revision of ANSI/NFPA 101A-1998) – February 9, 2001.
- ANSI/NFPA 111-2001, *Standard on Stored Electrical Energy Emergency and Standby Power Systems* (revision of ANSI/NFPA 111-1996) – February 9, 2001.
- ANSI/NFPA 804-2001, *Standard for Fire Protection for Advanced Light Water Reactor Electric Generating Plants* (revision of ANSI/NFPA 804-1995) – February 9, 2001.
- ANSI/NFPA 805-2001, *Standard on Performance Based Fire Protection for Light Water Reactor Electric Generation Plants* (new standard) – February 9, 2001.
- ANSI/NFPA 901-2001, *Standard Classifications for Incident Reporting and Fire Protection Data* (revision of ANSI/NFPA 901-1995) – February 9, 2001.
- ANSI/NFPA 921-2001, *Guide for Fire and Explosion Investigations* (revision of ANSI/NFPA 921-1998) – February 9, 2001.
- ANSI/NFPA 1401-2001, *Recommended Practice for Fire Service Training Reports and Records* (revision of ANSI/NFPA 1401-1996) – February 9, 2001.
- ANSI/NFPA 1851-2001, *Standard on Selection, Care, and Maintenance of Structural Fire Fighting Protective Ensemble Elements* (new standard) – February 9, 2001.
- ANSI/NFPA 1983-2001, *Standard on Fire Service Life Safety Rope and System Components* (revision of ANSI/NFPA 1983-1995) – February 9, 2001.

The following international standards are currently in coordination (comment due dates follow each entry):

- ISO/DIS 1996-1, *Acoustics – Description, measurement and assessment of environmental noise – Part 1: Basic quantities and assessment procedures* – June 2, 2001.

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- prEN 169 REVIEW, *Personal eye-protection – Filters for welding and related techniques – Transmittance requirements and recommended use* – May 21, 2001.
- prEN 170 REVIEW, *Personal eye-protection – Ultra-violet filters – Transmittance requirements and recommended use* – May 21, 2001.
- prEN 12094-4, *Fixed fire fighting systems – Components for gas extinguishing systems – Part 4: Requirements and test methods for high pressure container valve assemblies and their actuators* – May 22, 2001.
- prEN 14052, *Specifications for high performance industrial safety helmets* – April 2, 2001.
- prEN ISO 4142, *Laboratory glassware—Test tubes (ISO/DIS 4142:2001)* – June 22, 2001.
- prEN ISO 11553, *Safety of machinery – Laser processing machines – Safety requirements (ISO/DIS 11553:2001)* – May 18, 2001.
- prEN ISO 14020, *Environmental labels and declarations—General principles* – June 18, 2001.
- prEN ISO 14021, *Environmental labels and declarations – Self-declared environmental claims (Type II environmental labelling) (ISO 14021:1999)* – April 2, 2001.
- prEN ISO 14644-7, *Cleanrooms and associated controlled environments – Part 7: Separative enclosures (clean air hoods, gloveboxes, isolators, mini-environments) (ISO/DIS 14644-7:2001)* – June 22, 2001.

The following newly published international standards are available:

- IEC 60695-6-1 Ed. 1.0 b: 2001, *Fire hazard testing – Part 6-1: Smoke opacity – General guidance*.
- IEC 60695-6-2 TR2 Ed. 1.0 b: 2001, *Fire hazard testing – Part 6-2: Smoke obscuration – Summary and relevance of test methods*.
- IEC 61496-3 Ed. 1.0 b: 2001, *Safety of machinery – Electro-sensitive protective equipment – Part 3: Particular requirements for Active Opto-electronic Protective Devices responsive to Diffuse Reflection (AOPDDR)*.
- IEC 61838 TR3 Ed. 1.0 b: 2001, *Nuclear power plants – Instrumentation and control functions important for safety – Use of probabilistic safety assessment for the classification*.

American National Standards Projects Initiated

The following is a list of proposed new American National Standards or revisions to existing American National Standards submitted to ANSI by accredited standards developers. DOE employees or contractors interested in participating in these activities should contact the appropriate standards developing organization. DOE-TSL-4 lists the DOE representatives on NGS committees. If no DOE representative is listed, contact the TSPO for information on participating in NGS activities.

Institute of Electrical and Electronics Engineers (IEEE)

Office: 445 Hoes Lane
P.O. Box 1331
Piscataway, NJ 08855-1331

Fax: 732-562-1571

Contact: Patricia Gerdon, p.gerdon@ieee.org

- IEEE 739-1995 (R2000), *Recommended Practice for Energy Management in Industrial and Commercial Facilities*.

Robotic Industries Association

Office: P.O. Box 3724
900 Victor's Way, Suite 140
Ann Arbor, MI 48108-5210

Fax: 734-994-3338

Contact: Jeff Fryman, jfryman@robotics.org

- RIA T15.1, *Safety Requirements for Introduction of New Technology, Intelligent Assist Devices* (new standard).

American Society for Testing and Materials

Standards activities of the American Society for Testing and Materials (ASTM) are published monthly in *ASTM Standardization News*. Orders for subscriptions or single copies of *ASTM Standardization News* may be submitted to ASTM, Subscription Dept.-SN, 100 Barr Harbor Drive, West Conshohocken, Pennsylvania 19428-2959. For information regarding ASTM membership, contact the Membership Services Department at 610-832-9691 (Fax 610-832-9667). ASTM publications may be ordered from the ASTM Customer Services Department at 610-832-9585 (Fax 610-832-9555). Comments on listed draft standards may be submitted by contacting the ASTM Standards Coordination Department at the above address. Questions may be addressed to the Technical Committee Operations Division at 610-832-9672 (Fax 610-832-9666). Additional information on ASTM activities is available on the ASTM Web site (<http://www.astm.org>). The following listings are extracted from *ASTM Standardization News* and are representative of NGS development activities that may be relevant to DOE operations.

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The following ASTM standards are currently in coordination (the due date for all items is April 10, 2001):

- D 999-96, *Methods for Vibration Testing of Shipping Containers* (revised standard).
- D 2221-94, *Test Method for Creep Properties of Package Cushioning Materials* (revised standard).
- D 4332-00, *Practice for Conditioning Containers, Packages, or Packaging Components for Testing* (revised standard).
- E 1609-94, *Guide for Development and Implementation of a Pollution Prevention Program* (reapproval of standard).
- New Standard, *Guide for Disclosure of Environmental Liabilities*.
- New Standard, *Practice for Laboratory Simulation of Corrosion Under Insulation*.
- New Standard, *Test Method for Tensile Strength and Young's Modulus of Fibers*.

The following newly published standards are available from ASTM:

- B 243-00a, *Terminology of Powder Metallurgy* (revised standard).
- B 330-00, *Test Method for Fisher Number of Metal Powders and Related Compounds* (revised standard).
- B 353-00, *Specification for Wrought Zirconium and Zirconium Alloy Seamless and Welded Tubes for Nuclear Service Except Nuclear Fuel Cladding* (revised standard).
- B 571-97 (1997) e1, *Practice for Qualitative Adhesion Testing of Metallic Coatings* (new standard).
- D 3636-00, *Practice for Sampling and Judging Quality of Solid Electrical Insulating Materials* (revised standard).
- D 4059-00, *Test Method for Analysis of Polychlorinated Biphenyls in Insulating Liquids by Gas Chromatography* (revised standard).
- D 5425-00, *Guide for Development of Fire Hazard Assessment Standards of Electrotechnical Products* (revised standard).
- D 6589-00, *Guide for Statistical Evaluation of Atmospheric Dispersion Model Performance* (new standard).

- E 74-00a, *Practice of Calibration of Force-Measuring Instruments for Verifying the Force Indication of Testing Machines* (revised standard).
- E 349-00, *Terminology Relating to Space Simulation* (revised standard).
- E 490-00a, *Standard Solar Constant and Zero Air Mass Solar Spectral Irradiance Tables* (revised standard).
- E 542-00, *Practice for Calibration of Laboratory Volumetric Apparatus* (revised standard).
- E 1623-00, *Test Method for Determination of Fire and Thermal Parameters of Materials, Products, and Systems Using an Intermediate Scale Calorimeter (ICAL)* (revised standard).
- E 2081-00, *Guide for Risk-Based Corrective Action* (new standard).
- E 2108-00, *Practice for Calibration of the Electron Binding-Energy Scale of an X-Ray Photoelectron Spectrometer* (new standard).
- F 1358-00, *Test Method for Effects of Flame Impingement on Materials Used in Protective Clothing Not Designated Primarily for Flame Resistance* (revised standard).

Comments, Questions, and Addresses

Comments: If you have any questions or comments, please contact Rick Serbu, EH-53, Manager, DOE Technical Standards Program Office (TSPO), 301-903-2856, Fax 301-903-6172, Richard.Serbu@eh.doe.gov.

Addresses: *Standards Actions* and *The Standards Forum* are electronic newsletters available on the TSP Web Site (<http://tis.eh.doe.gov/techstds/>). To update your mailing and e-mail addresses, please contact Amy Bush, ORNL, 865-576-2395, Fax 865-574-0382, bushar@ornl.gov.

Technical Standards Activities: The TSPO would like to be kept informed of the status of technical standards that are being prepared or coordinated for DOE. Please provide this information to the TSPO at 865-576-2395, bushar@ornl.gov.